

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application.

Listing of Claims:

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Claim 1 (currently amended). A camera for getting information about a three-dimensional shape, comprising:

an image capturing device for capturing an image of an object within a region to be photographed;

a projector for projecting a light spreading on the region, the light having a predetermined pattern within a spreading area thereof; and

a monitor for displaying the image of the object, the monitor having a memory for storing the image of the object that the image capturing device captures when the projector does not project the pattern light on the region,

wherein the image capturing device captures a projection pattern formed on the object by the pattern light, and

wherein, when the image capturing device captures the image of the object with the pattern light projected by the projector on the region, the monitor displays the image of the object captured without the pattern light and stored in the memory instead of the image of the object the image capturing device captures with the projector projecting the pattern light on the region so that the image of the object without the pattern can be observed although the object is being lightened by the pattern light.

Claim 2 (previously presented). The camera as claimed in claim 1, wherein the light spreading on the region is a non-uniform light and has a distribution of illuminance, and

the projection pattern which is formed on the object within the region by the light spreading on the region comprises at least one stripe.

Claim 3 (previously presented). The camera as claimed in claim 1, wherein the light spreading on the region comprises a colored light, and

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the projection pattern that is formed on the object within the region by the light spreading on the region comprises a colored part.

Claim 4 (currently amended). A camera capable of getting information about a three-dimensional shape of an object, comprising:

a projector for projecting a light spreading on the object and having a predetermined pattern within a spreading area thereof;

a photographing part for photographing the object;

a memory for storing an image of the object that the photographing part photographs in a state in which the projector does not project the light having the predetermined pattern on the object; and

a display part for displaying the image of the object photographed without the pattern light and stored in the memory instead of the image of the object the photographing part photographs while the projector projects the light having the predetermined pattern on the object so that the image of the object without the pattern can be observed although the object is being lightened by the pattern light.

Claim 5 (original). The camera as claimed in claim 4, wherein the display part displays the image of the object the photographing part photographs while the projector does not project the light having the predetermined pattern on the object.

Claim 6 (previously presented). The camera as claimed in claim 4, wherein the light having the predetermined pattern is a non-uniform light and has a distribution of illuminance, and

a projection pattern that is formed on the object by the light having the predetermined pattern comprises at least one stripe.

Claim 7 (previously presented). The camera as claimed in claim 4, wherein the light having the predetermined pattern comprises a colored light, and

a projection pattern that is formed on the object by the light having the predetermined pattern comprises a colored part.

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Claim 8 (currently amended). A camera capable of getting information about a three-dimensional shape of an object, comprising:

an image taking part for successively taking images of the object;

a first memory for successively and temporarily storing the images of the object the image taking part takes;

a display part for renewing and displaying the images of the object successively; and

a projector for projecting a light spreading on the object with a predetermined pattern within a spreading area thereof,

wherein the display part displays the image of the object captured and stored in the first memory prior to a projection of the light with the predetermined pattern by the projector instead of the image of the object the image taking part takes when the image taking part takes the image of the object in a state in which the projector projects the light with the predetermined pattern so that the image of the object without the pattern can be observed although the object is being lightened by the pattern light.

Claim 9 (previously presented). The camera as claimed in claim 8, further comprising a second memory for storing the images of the object the image taking part takes, the second memory outputting the stored images of the object to the first memory successively.

Claim 10 (previously presented). The camera as claimed in claim 9, wherein the second memory stores the image of the object the image taking part takes, and the image of the object stored in the second memory is prohibited from being outputted to the first memory when the image taking part takes the image of the object in the state in which the projector projects the light with the predetermined pattern.

Claim 11 (previously presented). The camera as claimed in claim 8, wherein the display part is prohibited from renewing the image of the object when the image taking part takes the image of the object in the state in which the projector projects the light with the predetermined pattern.

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Claim 12 (previously presented). The camera as claimed in claim 8, wherein the light with the predetermined pattern is a non-uniform light and has a distribution of illuminance, and

a projection pattern that is formed on the object by the light with the predetermined pattern comprises at least one stripe.

Claim 13. (previously presented). The camera as claimed in claim 8, wherein the light with the predetermined pattern comprises a colored light, and

a projection pattern that is formed on the object by the light with the predetermined pattern comprises a colored part.

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